



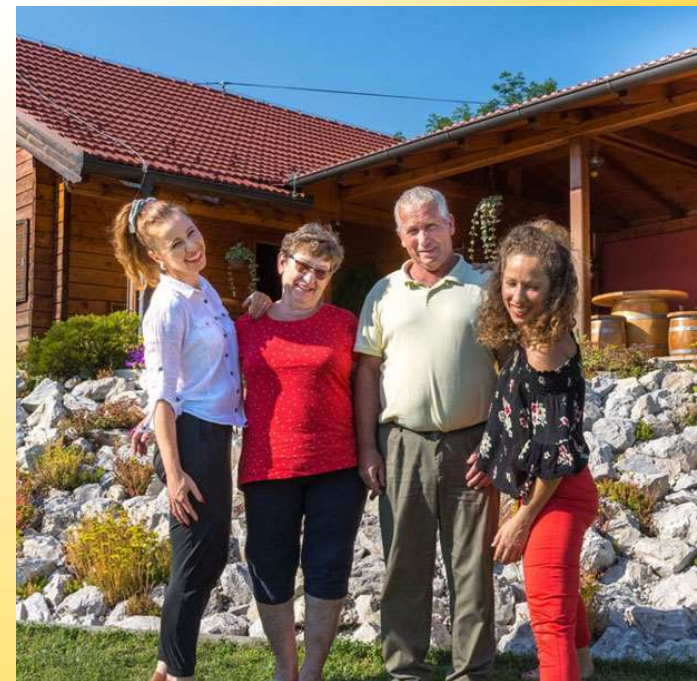
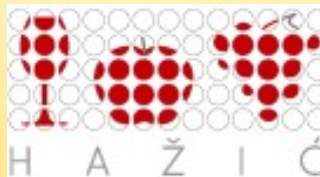
EIP-AGRI FOCUS GROUP SUSTAINABLE WAYS TO REDUCE PESTICIDES IN POME AND STONE FRUIT PRODUCTION



FAMILY FARM HAŽIĆ

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- apple and wine producers since 1995
- providing tourist services since 2009 (wine house, wine camp)
- apple processing since 2015 (wine, juices, apple vinegar, dried apples)





- well-known for apple production and their high-quality organoleptic properties
- 18,000 apple trees of different varieties: idared, granny smith, jonagold and golden delicious
- cool storage facility and processing facilities





- by 2017 we were producing 300 tons of apples (conventional) with approx. 20 sprays per year, with 98% of the first class - apples for the needs of larger markets - mainly Russian and Slovenian
- > *very demanding production with high input costs, adverse environmental impact and low income (wholesale buyers took a large intermediary margin)*
- in 2015 we invested in the apple processing plant, ie the production of apple juice and reduced the production to approx. 200 t (of which 80 t of first-class)
- reduce of several sprays (against storage diseases, for apple shaping and last generation of corn borer)
- use of mineral fertilizers has been significantly reduced from 1 t /ha to 300 kg/ha - it will be further reduced



- with the reduction of apple production per hectare (from the previous 60 t to 40 t) orchards are more resistant to frost and diseases (150 meters above sea level)
- in 27 years of apple production we had 5 natural disasters (of which in 3 years there was no damage thanks to micronutrient supplements)
- a good varieties also helps us (for example, golden delicious later enters flowering and after frosts flowering takes place on annual branches)
- the most significant pests / diseases are: apple scab, aphids and mites (California aphid is considered as the biggest threat)

- we do not use any alternative methods in production, although we would be willing to use them if the advisory services would do some research / testing activities and prove the cost-effectiveness
- the demand for processed products is growing and we certainly do not plan to return to previous higher production of apples, which is economically unviable
- when restoring orchards, we plan to take into account more resistant varieties and those that will be organoleptically more suitable for processing
- we are aware of the need for change and we are ready to accept it in order to adapt to the standards, but only if it ensures our financial sustainability

„less is more“



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- Thank you for your attention!

